Performance Data Sheet

AE3440Y-XN1A

General Information

Model	AE3440Y-XN1A	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-15	Watts (Capacity)	493	436	372	306
	Watts (Power)	288	307	322	331
	Amps	2.78	2.80	2.83	2.85
	Lb/h	10.0	9.66	9.10	8.42
-10	Watts (Capacity)	631	560	482	401
	Watts (Power)	307	331	351	368
	Amps	2.81	2.84	2.88	2.92
	Lb/h	12.9	12.4	11.8	11.0
-6.7	Watts (Capacity)	737	655	566	473
	Watts (Power)	319	347	371	392
	Amps	2.83	2.87	2.92	2.97
	Lb/h	15.0	14.6	13.9	13.1
-5	Watts (Capacity)	796	708	612	513
	Watts (Power)	325	355	381	405
	Amps	2.84	2.89	2.94	3.00
	Lb/h	16.3	15.8	15.1	14.2
0	Watts (Capacity)	989	881	764	643
	Watts (Power)	342	377	411	442
	Amps	2.88	2.94	3.01	3.10
	Lb/h	20.3	19.8	19.0	17.9
5	Watts (Capacity)	1210	1080	938	792
	Watts (Power)	357	398	439	479
	Amps	2.91	2.99	3.09	3.20
	Lb/h	25.1	24.5	23.5	22.3
7.2	Watts (Capacity)	1320	1180	1020	865
	Watts (Power)	362	406	451	495

	Amps	2.92	3.01	3.12	3.25
	Lb/h	27.5	26.8	25.8	24.5
10	Watts (Capacity)	1470	1310	1140	963
	Watts (Power)	368	416	465	514
	Amps	2.94	3.04	3.17	3.31
	Lb/h	30.7	29.9	28.8	27.5
15	Watts (Capacity)	1750	1560	1360	1160
	Watts (Power)	375	431	488	546
	Amps	2.96	3.09	3.25	3.42
	Lb/h	37.1	36.2	34.9	33.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.211488E+03	2.347533E+02	2.855355E+00	1.955974E+01
C2	5.424988E+01	7.989299E-01	2.381778E-03	9.015593E-01
C3	-3.845042E+00	3.529719E+00	-4.524854E-03	1.021608E-01
C4	8.064478E-01	-7.955019E-02	-2.633439E-04	1.546954E-02
C5	-4.054163E-01	4.774197E-02	3.964992E-06	1.453469E-04
C6	-1.442442E-01	4.675492E-03	2.113685E-04	-2.940497E-03
C7	2.010285E-03	-1.165334E-03	-3.241987E-06	8.777870E-05
C8	-6.945409E-03	1.046932E-03	7.297818E-06	-3.775133E-05
C9	-5.762874E-04	1.044412E-03	4.841480E-06	-2.693110E-05
C10	8.403712E-04	-9.663637E-05	-1.152631E-06	1.313234E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AE3440Y-XN1A

General Information

Model	AE3440Y-XN1A	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	2170	2050	1910	1750	1580	1420	1280
	Watts	307	319	330	341	349	355	360
	Amps	2.26	2.29	2.31	2.34	2.37	2.39	2.41
	Lb/h	27.9	27.5	26.8	25.8	24.7	23.7	22.8
10	Btu/h	2450	2330	2180	2010	1830	1650	1490
	Watts	323	336	349	361	372	380	387
	Amps	2.31	2.33	2.37	2.40	2.43	2.46	2.49
	Lb/h	31.5	31.3	30.6	29.7	28.6	27.5	26.5
15	Btu/h	2760	2630	2470	2290	2100	1900	1710
	Watts	339	354	368	382	395	406	415
	Amps	2.35	2.39	2.42	2.46	2.50	2.54	2.57
	Lb/h	35.4	35.3	34.8	33.9	32.8	31.6	30.4
20	Btu/h	3090	2960	2790	2590	2380	2160	1950
	Watts	354	371	387	403	418	431	444
	Amps	2.40	2.44	2.48	2.53	2.58	2.62	2.67
	Lb/h	39.7	39.8	39.3	38.5	37.3	36.1	34.8
25	Btu/h	3450	3310	3130	2920	2690	2450	2210
	Watts	369	387	405	423	441	457	472
	Amps	2.45	2.49	2.54	2.60	2.65	2.71	2.76
	Lb/h	44.3	44.6	44.2	43.4	42.3	41.0	39.6
30	Btu/h	3840	3690	3490	3270	3020	2760	2490
	Watts	384	403	423	443	463	483	501
	Amps	2.50	2.55	2.60	2.67	2.73	2.80	2.86
	Lb/h	49.4	49.8	49.6	48.8	47.7	46.3	44.8
35	Btu/h	4250	4090	3890	3640	3370	3090	2790
	Watts	397	418	441	463	486	508	530
	Amps	2.54	2.60	2.66	2.74	2.81	2.89	2.97
	Lb/h	54.9	55.5	55.4	54.7	53.6	52.1	50.5
40	Btu/h	4700	4530	4310	4050	3750	3440	3120
	Watts	410	433	457	483	508	534	559
	Amps	2.58	2.65	2.72	2.81	2.90	2.99	3.08
	Lb/h	61.0	61.7	61.7	61.1	60.0	58.5	56.8

45	Btu/h	5190	5000	4760	4480	4160	3820	3470
	Watts	421	446	473	501	530	558	587
	Amps	2.62	2.70	2.78	2.88	2.98	3.08	3.19
	Lb/h	67.6	68.5	68.6	68.1	66.9	65.4	63.6
50	Btu/h	5710	5510	5250	4950	4610	4240	3850
	Watts	431	459	488	519	551	583	615
	Amps	2.65	2.74	2.84	2.94	3.06	3.18	3.30
	Lb/h	74.7	75.9	76.1	75.6	74.5	73.0	71.0
55	Btu/h	6260	6050	5770	5450	5080	4680	4260
	Watts	440	470	502	536	570	606	642
	Amps	2.68	2.78	2.89	3.01	3.14	3.27	3.41
	Lb/h	82.6	83.8	84.2	83.8	82.8	81.1	79.1
60	Btu/h	6860	6630	6330	5980	5590	5160	4700
	Watts	447	480	515	551	589	629	668
	Amps	2.70	2.81	2.93	3.07	3.21	3.36	3.52
	Lb/h	91.0	92.5	93.0	92.7	91.7	90.0	87.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.050111E+02	2.136289E+02	2.446069E+00	2.943206E+00
C2	2.764085E+01	3.580684E+00	1.310683E-02	2.639286E-02
C3	4.845797E+01	3.591568E-01	-1.060820E-02	7.055101E-01
C4	6.057031E-01	-1.978028E-02	-8.232757E-05	3.544609E-03
C5	5.654871E-01	-2.636684E-02	-1.389932E-04	1.227785E-02
C6	-5.685193E-01	1.301055E-02	1.324586E-04	-7.118470E-03
C7	2.475023E-03	-1.902813E-04	-1.249889E-06	5.517513E-05
C8	-2.739342E-03	2.575190E-04	1.910225E-06	9.814623E-06
C9	-3.503031E-03	2.762522E-04	9.868648E-07	-5.597596E-05
C10	1.688325E-03	-6.788378E-05	-4.430360E-07	2.085663E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature